Notice of Allowability	Application No.	Applicant(s)	
	09/918,258 Examiner		
	Glenn A. Auve	2111	
The MAILING DATE of this communication appeals claims being allowable, PROSECUTION ON THE MERITS IS nerewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate committee in the committee in	n this application. If not include unication will be mailed in due	ded e course. THIS
1. ☑ This communication is responsive to <i>the RCE filed 8 April</i>	<u>2005</u> .		
2. ☑ The allowed claim(s) is/are <u>1-32</u> .			
B. $igotimes$ The drawings filed on <u>10 December 2001</u> are accepted by	the Examiner.		
Acknowledgment is made of a claim for foreign priority uner a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be subminsformal PATENT APPLICATION (PTO-152) which give (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner' Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the deponsant attached Examiner's comment regarding REQUIREMENT.	e been received. e been received in Application cuments have been received of this communication to file MENT of this application. Initiated. Note the attached EXT are reason(s) why the oath of the submitted. Son's Patent Drawing Reviews Amendment / Comment of the header according to 37 CF asit of BIOLOGICAL MAT	on No d in this national stage applic a reply complying with the re AMINER'S AMENDMENT or r declaration is deficient. w (PTO-948) attached r in the Office action of he drawings in the front (not the R 1.121(d). ERIAL must be submitted.	equirements NOTICE OF
Attachment(s) Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. Interview S Paper No 7. Examiner's	Glenn A.	lowance Auve
·		Primary Pater Technology C	t Examiner enter 2100

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REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: independent claims 1. 1,13, and 23 have been amended to include the limitations of the first and second communications interface are coupled in parallel on the primary data bus such that the first or the second communications protocol can communicate directly on the primary data bus. These limitations in combination with the others in the claim are not shown by the prior art and do not appear to have been obvious. The previously cited reference to Emmert et al. shows an I/O device with USB and IEEE 1284 interfaces in parallel and coupled via a single connector to a host. However the memory and processor limitations are not present and the device is not a field device for use in a process control system. Similarly, the previously cited reference to Blair also shows a device with two interfaces, one USB and one a legacy interface such as RS232 or RS485. However there is no clear showing that these interfaces are coupled to a primary bus in parallel so they can communicate directly on the primary bus, and as above the device is not a field device for use in a process control system. Also, the previously cited reference to Krivoshein shows a system in which field devices of different types including HART, Fieldbus, Profibus, and AS-Interface, can be coupled to a network or primary bus via a controller. This is shown in fig.1, where the primary bus is labeled 16. The controller 20 includes a processor 24 and memory 26, however each different protocol's master is coupled via a separate direct connection to the controller. There is no clear teaching regarding the internal structure of the controller so there is no way to know whether there are multiple interfaces coupled to the primary bus 16 as claimed.

Independent claims 26 and 31 include the limitations of the processor is programmed to process the communications having the first protocol and the communications having the second protocol, the processor being further programmed to use the communications having

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the first protocol for process control and to use the communications having the second protocol for configuration of the field device. These limitations are not present in the prior art and do not appear to have been obvious.

Independent claims 29 and 32 include the limitations of the processor being programmed to process the communications having the first protocol and the communications having the second protocol, the first communications interface being further adapted to process communications having a first frequency band and the second communications interface is further adapted to process communications having a second frequency band different from the first frequency band. These limitations are not present in the prior art and do not appear to have been obvious.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Glenn A. Auve whose telephone number is (571) 272-3623. The examiner can normally be reached on M-F 8:00 AM-5:30 PM, every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart can be reached on (571) 272-3632. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Glenn A. Auve Primary Examiner Art Unit 2111

gaa 6 June 2005